How to change engine oil and filter on **Mini R50, R53** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
MINI Hatchback (R50, R53) 1.6 One, MINI Hatchback (R50, R53) 1.6 Cooper, MINI Hatchback (R50, R53) 1.6 Cooper S, MINI Convertible (R52) 1.6 One, MINI Convertible (R52) 1.6 Cooper, MINI Convertible (R52) 1.6 Cooper S, MINI Convertible (R52) 1.6 John Cooper Works, MINI Hatchback (R56) 1.6 Cooper, MINI Hatchback (R50, R53) One, MINI Hatchback (R50, R53) 1.6 John Cooper Works

The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE OIL AND FILTER – MINI R50, R53. TOOLS YOU'LL NEED:



- Drive socket # 13
- Oil filter cup socket 76-14F
- Ratchet wrench
- Torque wrench
- Funnel
- Oil drain pan
- Microfibre towel
- Fender cover

BUY TOOLS

AUTODOC recommends:

- Replace the oil filter every time when changing motor oil.
- Wear gloves to prevent contact with hot liquid.
- Please note: all work on the car – Mini R50, R53 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

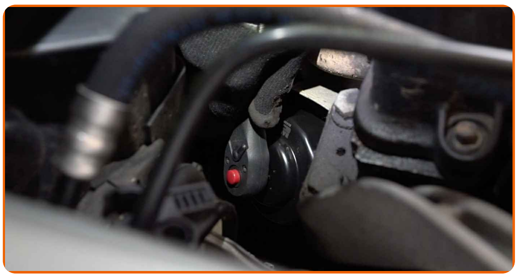
1 Open the hood. Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



2 Clean the oil filter housing cap.



3 Unscrew the filter housing cap together with the old filter element. Use the 76-14F socket. Use a ratchet wrench.



4

Prepare a container for the old oil filter.



5

Remove the filter element from the filter housing. Put the old filter cartridge in the container.



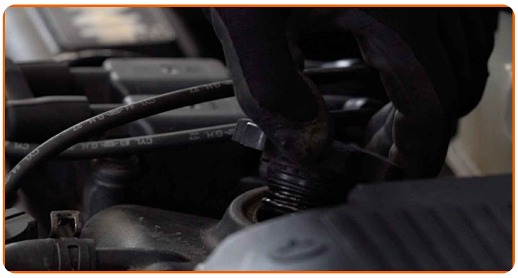
6

Cover the oil filter housing with a microfibre towel to prevent dirt and foreign objects from getting into the system.



7

Unscrew the oil filler plug.



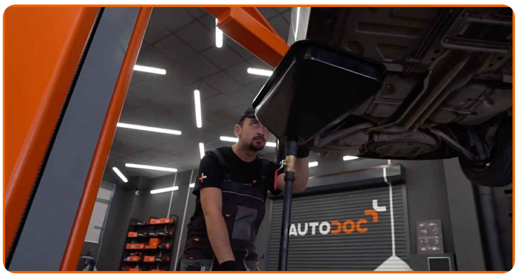
8

Lift the car using a jack or place it over an inspection pit.

Replacement: engine oil and filter – Mini R50, R53. Tip:

- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.

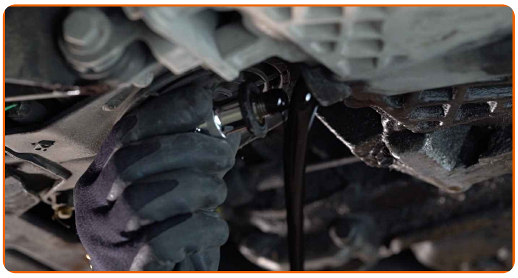
9 Put a waste oil container with at least 5 l capacity under the drainage hole.



10 Unscrew the drain plug. Use a drive socket #13. Use a ratchet wrench.



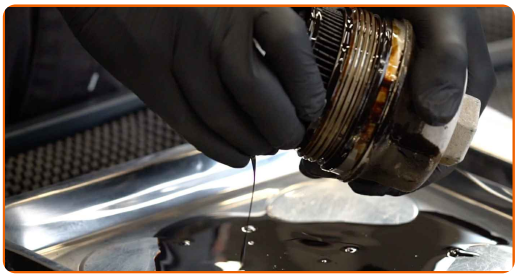
11 Drain the used oil.



Replacement: engine oil and filter – Mini R50, R53. Professionals recommend:

- Caution! The oil may be hot.

12 Detach the oil filter from the filter cover.



13 Remove the oil filter cover O-ring.



14 Install a new O-ring to its mounting seat on the filter cover.



15 Install the new oil filter to the mounting seat on the filter cover.



Please note!

- Make sure to install the filter correctly. Don't mix up the sides of the part.
- Wait until the oil has completely drained from the drainage hole.

16 Clean the area of the oil pan drainage hole.



17 Screw in the new drainage plug and tighten it. Use a drive socket #13. Use a torque wrench. Tighten it to 25 Nm torque.

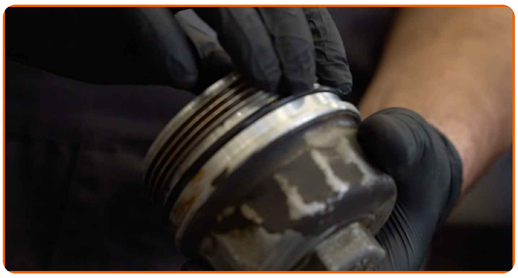


18 Lower the car.

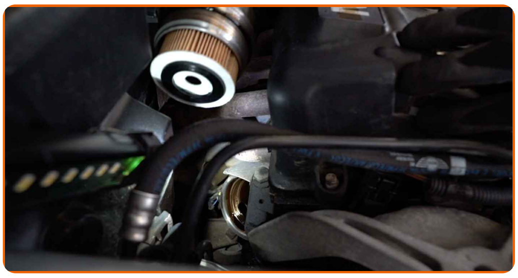
19 Remove the microfibre towel from the oil filter housing.



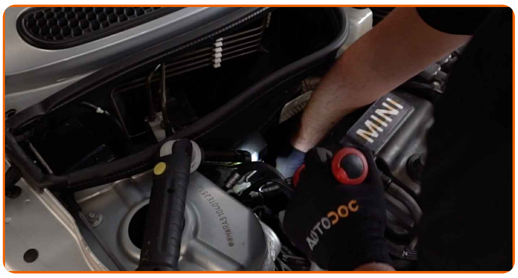
20 Lubricate the rubber seal of the new filter with a little amount of fresh oil.



21 Screw the new filter into its place.



22 Screw the cap. Use the 76-14F socket. Use a torque wrench. Tighten it to 25 Nm torque.



23 Remove the oil filler cap.



24 Insert the funnel.



25 Pour oil into the engine through the filler. Required amount of oil: 4.8 l.



Replacement: engine oil and filter – Mini R50, R53. AUTODOC experts recommend:

- Use the oil recommended by the manufacturer.

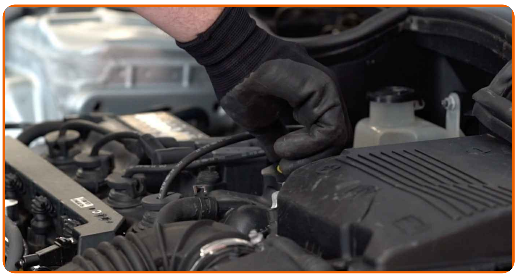
26 Check the oil level using the dipstick. Top up oil if necessary.



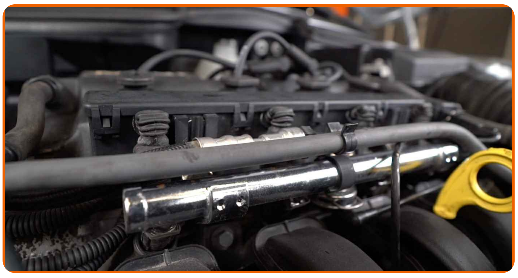
Please note!

- The oil level should be between the Min and Max marks.

27 Tighten the oil filler cap.



28 Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine.



29 Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.



Please note!

- The oil level should be between the Min and Max marks.
- Make sure that the oil filler cap is properly tightened.
- Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

30 Remove the fender protection cover. Close the hood.



Replacement: engine oil and filter – Mini R50, R53. AUTODOC recommends:

- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

WELL DONE!

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